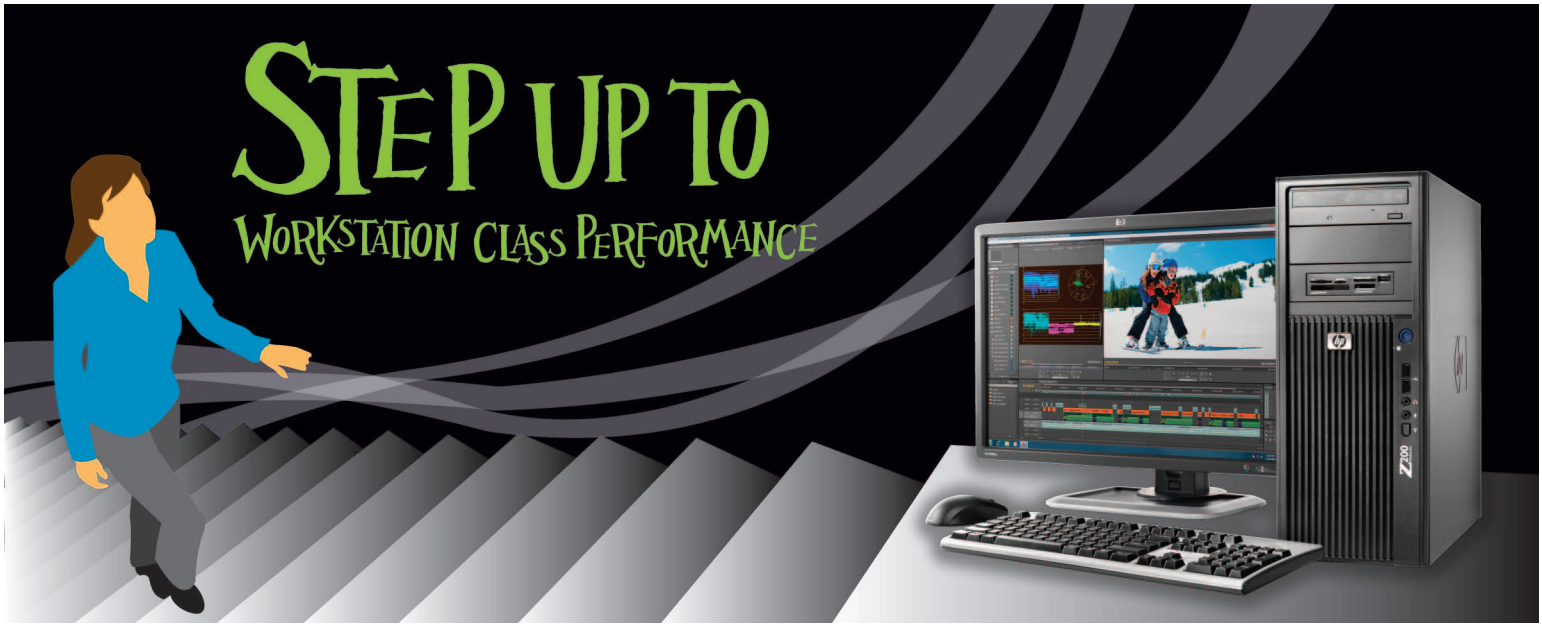
Windows®. Life without Walls™. HP recommends Windows 7.



HP Z200 Workstation

Low-cost, high-performance mainstream value workstation

Power hungry? Do you need a workstation-class system but have a PC budget? Boasting advanced memory, graphics, and storage plus application certification, next-generation processors, and HP Performance Advisor, the HP Z200 Workstation brings workstation-class productivity to the masses.

Innovation that transforms the way you work
The HP Z200 creates a new entry-point into the HP Workstation family, offering the advanced power and productivity of workstation technology at starting prices that rival traditional desktop computing systems.

- Experience easy access—both inside and out with a tool-free chassis and convenient FireWire® and USB ports on the front
- Choose from a breadth of graphics selections—including Intel® HD Graphics or 2D/3D options from NVIDIA and ATI

Only HP offers such a broad range of solutions from leading manufacturers to complement our own world-class workstation, notebook and desktop computing products.

Performance to help you accomplish more every minute
The HP Z200 is engineered to optimize the way the processor, memory, graphics, operating systems, and software work together.

- Get fast performance—with built-in memory controller and a wide selection of the latest dual-core Intel® Core™ i3 and i5 processors or quad-core Intel Core i5 and i7 and Intel® Xeon® Series 3400 processors[1,2,3]
- Fine-tune your workstation's performance—and maintain your drivers, operating systems, and applications with HP Performance Advisor
- Be future-ready—with expanded PCIe, FireWire, a whopping 11 USB interfaces, a range of SATA, eSATA, and storage bays, HP Blu-ray Writer[4], and optional 22-in-1 media card reader
- Save energy—Be energy smart with HP's lowest power consuming workstation ever.[5] ENERGY STAR® v5 configurations are available.

Reliable, legendary, confidence-inspiring quality
Deliver results and stay productively up and running with a confidence backed by in-depth engineering, testing, and quality assurance.

- Reliable enterprise-class technology at an entry-level price—includes ECC memory that helps ensure data integrity and higher system uptime
- Close ISV relationships—help ensure that HP Workstations are fully certified and optimized for your applications
- Maintain image stability—streamline certification processes and migrate smoothly with a years-long lifecycle
- Choose, use, protect, and transition with ease—with HP Total Care's personal attention, convenient tools, and reliable services

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Windows®. Life without Walls™. HP recommends Windows 7.

Form factor	Convertible minitower
Operating systems	Genuine Windows® 7 Ultimate 64-bit* Genuine Windows® 7 Professional 32-bit* Genuine Windows® 7 Professional 64-bit* HP Installer Kit for Linux (includes drivers for both 32-bit and 64-bit OS versions of Red Hat Enterprise Linux WS5) Novell Suse SLED 11 Linux Red Hat Enterprise Linux WS5 (paper license drop-in-the-box only)
Available processors[1,2,3,6,7]	Intel® Celeron® processor G1101, 2.26 GHz, 2 MB cache, 1066 MHz memory, Dual-Core Intel® Pentium® processor G6950, 2.80 GHz, 3 MB cache, 1066 MHz memory, Dual-Core Intel® Core™ processor i3-540, 3.06 GHz, 4 MB cache, 1333 MHz memory, Dual-Core, HT Intel Core processor i3-550, 3.20 GHz, 4 MB cache, 1333 MHz memory, Dual-Core, HT Intel Core processor i3-560, 3.33 GHz, 4 MB cache, 1333 MHz memory, Dual-Core, HT Intel Core processor i5-650, 3.20 GHz, 4 MB cache, 1333 MHz memory, Dual-Core, HT, Turbo Intel Core processor i5-660, 3.33 GHz, 4 MB cache, 1333 MHz memory, Dual-Core, HT, Turbo Intel Core processor i5-670, 3.46 GHz, 4 MB cache, 1333 MHz memory, Dual-Core, HT, Turbo Intel Core processor i5-680, 3.60 GHz, 4 MB cache, 1333 MHz memory, Dual-Core, HT, Turbo Intel Core processor i5-760, 2.80 GHz, 8 MB cache, 1333 MHz memory, Quad-Core, Turbo Intel Core processor i7-870, 2.93 GHz, 8 MB cache, 1333 MHz memory, Quad-Core, HT, Turbo Intel Core processor i7-880, 3.06 GHz, 8 MB cache, 1333 MHz memory, Quad-Core, HT, Turbo Intel® Xeon® processor X3430, 2.40 GHz, 8 MB cache, 1333 MHz memory, Quad-Core, Turbo Intel Xeon processor X3440, 2.53 GHz, 8 MB cache, 1333 MHz memory, Quad-Core, HT, Turbo Intel Xeon processor X3450, 2.66 GHz, 8 MB cache, 1333 MHz memory, Quad-Core, HT, Turbo Intel Xeon processor X3470, 2.93 GHz, 8 MB cache, 1333 MHz memory, Quad-Core, HT, Turbo Intel Xeon processor X3480, 3.06 GHz, 8 MB cache, 1333 MHz memory, Quad-Core, HT, Turbo
Chipset	Intel® 3450 Chipset
Memory[8]	4 DIMM slots, up to 16 GB ECC/non-ECC, DDR3 1333 MHz (ECC/non-ECC choice and actual memory speed dependent on processor capability)
Drive controllers[9]	Integrated SATA 3 GB/s controller
Hard drive(s)[10]	Up to (3) 3.5-inch 7200 rpm SATA drives: 160, 250, 320, 500 GB, 1 TB, 1.5 TB; 4.5 TB max; Up to (3) 2.5-inch 10K rpm SATA drives: 160, 300 GB, 0.9 TB max; Up to (3) 2.5-inch SATA solid state drives: Intel X25-M 160 GB, 480 GB max
Optical drives[4]	DVD-ROM, DVD+/-RW DL Super Multi, HP Blu-ray Writer
Drive bays	3 external 5.25-inch bays, 3 internal 3.5-inch HDD bays (4 max with converter)
Slots	1 PCI Express Gen1 slot x1 mechanical/x1 electrical, 1 PCI Express Gen2 slots x16 mechanical/ x16 electrical (used for discrete graphics) 1 PCI Express Gen1 slot x4 mechanical/x1 electrical, 1 PCI Express Gen1 slot x16 mechanical/x4 electrical, 3 PCI slots (full-height, full-length)
Graphics (dual graphics on selected cards)	**Professional 2D**: Integrated Intel® HD Graphics (with dual-core processors only), NVIDIA Quadro NVS 295 (256 MB), NVIDIA NVS 300 (512 MB)—single or dual graphics cards supported **Entry 3D**: NVIDIA Quadro FX 380 (256 MB), ATI FirePro V3700 (256 MB), ATI FirePro V3800 (512 MB), NVIDIA Quadro FX 580 (512 MB), NVIDIA Quadro 600 (1 GB), ATI FirePro V4800 (1 GB) **Mid-range 3D**: NVIDIA Quadro FX 1800 (768 MB), ATI FirePro V5700 (512 MB), ATI FirePro V5800 (1 GB), NVIDIA Quadro 2000 (1 GB)
Audio	High Definition Integrated Realtek ALC262 Audio and integrated speaker; optional Creative X-Fi Titanium PCIe Audio Card; optional HP Thin USB Powered Speakers
Network	Integrated Intel 82578 DM (supports Intel® AMT 6.0)
Ports	**Front**: 2 USB 2.0, 1 IEEE 1394a (optional), 1 microphone in, 1 headphone out, optional HP 22-in-1 Media Card Reader **Rear**: 6 USB 2.0, 1 audio in, 1 audio out, 1 serial (optional), 1 microphone in, 1 DVI-I single link, 1 DisplayPort (for use with Intel HD graphics on dual-core processors only); dual display possible across DisplayPort and DVI-I **Internal**: 5 USB 2.0 ports available by two separate 2x5 and one 1x5 header
Input devices	PS/2 standard keyboard, USB standard keyboard, USB smart card keyboard, PS/2 optical scroll mouse, USB 2-button optical scroll mouse, USB 3-button optical mouse, USB SpaceExplorer, USB SpacePilot, USB laser scroll mouse
Dimensions (H x W x D)	17.6 x 7 x 17.9 in (44.76 x 17.78 x 45.43 cm)
Power supply	320-watt 89% efficient power supply
Monitors (screen size diagonally measured)	HP ZR30w 30-inch S-IPS LCD Monitor, HP LP3065 30-inch Widescreen LCD Monitor, HP DreamColor LP2480zx Professional Display (24-inch diagonal widescreen), HP ZR24w 24-inch S-IPS LCD Monitor, HP ZR22w 21.5-inch S-IPS LCD Monitor, HP LP2065 20-inch LCD Monitor
Warranty	Limited three-year Mon-Fri 8-5 next business day,[11] parts, labor and 24x7 phone support, terms and conditions may vary.

* Windows 7 systems may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See http://www.microsoft.com/windows/windows-7/ for details.

1 Dual-Core and Quad-Core technologies are designed to improve performance of multithreaded software products and hardware-aware multitasking operating systems and may require appropriate operating system software for full benefits; Not all customers or software applications will necessarily benefit from use of these technologies.

2 64-bit computing on Intel architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. See http://www.intel.com/info/em64t for more information.

3 Intel's numbering is not a measurement of higher performance.

4 Actual speeds may vary. Does not permit copying of commercially available DVD movies or other copyright protected materials. Intended for creation and storage of your original material and other lawful uses. Double Layer discs can store more data than single layer discs. However, double-layer discs burned with this drive may not be compatible with many existing single-layer DVD drives and players. As Blu-ray is a new format containing new technologies, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support. HD DVD movies cannot be played on this workstation.

5 Calculation and comparison completed using the United States EPA's Total Energy Consumption (TEC) equation.

6 The hyper-threading feature is designed to improve performance of multi-threaded software products; please contact your software provider to determine software compatibility. Not all customers or software applications will benefit from the use of hyperthreading. Go to http://www.intel.com/info/hyperthreading for more information, including which processors support HT Technology.

7 Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software, and overall system configuration. See www.intel.com/technology/turboboost for more information.

8 Each processor supports up to 2 channels of DDR3 memory. To realize full performance at least 1 DIMM must be inserted into each channel.

9 SATA hardware RAID is not supported on Linux systems. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID. Please visit http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00060684/c00060684.pdf for RAID capabilities with Linux.

10 For hard drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 20 GB of hard drive (or system disk) is reserved for the system recovery software for Windows 7.

11 HP Care Pack Services extend service contracts beyond the standard warranties. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at http://www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at http://www.hp.com/go/carepack. Service levels and response times for HP Care Packs may vary depending on your geographic location.

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